

PATENT ABSTRACTS OF JAPAN

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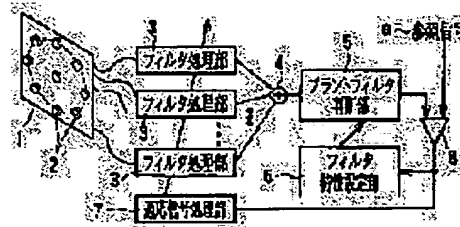
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(54) WAVE MOTION DIAGNOSTIC EQUIPMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a wave motion diagnostic equipment which can accurately and quickly detect the abnormality of equipment constituting a plant, including the direction and position of the abnormality by utilizing wave motion signals in the plant.

SOLUTION: A wave motion diagnostic equipment is provided with an acoustic wave motion receiving section 1, in which a plurality of acoustic wave motion detecting elements are arranged for detecting wave motions in a field, such as the plant, etc., adds a filter characteristic having a gain and a phase to a detect signal from the receiving section 1 by means of a filter processing section 3, and gives the output of the processing section 3 to a plate filter discriminating section 5 after compositing the output by means a compositing section 4. Then the diagnostic equipment compares the output of the discriminating section 5 with a reference signal, changes the filter characteristic of the discriminating section 5 through a filter characteristic changing means, based on the compared results of the comparing means, and adaptively changes the processing section 3 through an adaptive signal processing section 7. As a result, the diagnostic equipment can detect the wave motion of an equipment which constitutes the plant by eliminating the effects of reflection, even if the field is in a highly reflecting environment.



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